

ABSTRACT

GLASS PANEL WITH BARRIER COATING AND RELATED METHODS

- 5 [0050] An index-matching coating is applied directly to a low-emissivity ("lowE") thin-film coating. Nodules growing from a site in the lowE coating are removed to avoid propagation of defects through the layers of the index-matching coating. A tempering step in an oxygen-containing atmosphere produces compressive stress in the lowE coating and hardens the coating. The compressive stress facilitates removal of the nodules and the
- 10 hardening allows mechanical cleaning of the lowE coating prior to the index-matching coating, further removing nodules. Magnesium-fluoride is used as the final layer of the index-matching coating in one embodiment to improve abrasion resistance. The resulting glass panel may be used as a display panel in a plasma display or an organic light-emitting diode display, for example.